

## Figures

**Figure 1a.** Intensity Instrumentation for Stern-Volmer Characterizations – optical and vacuum measurement system

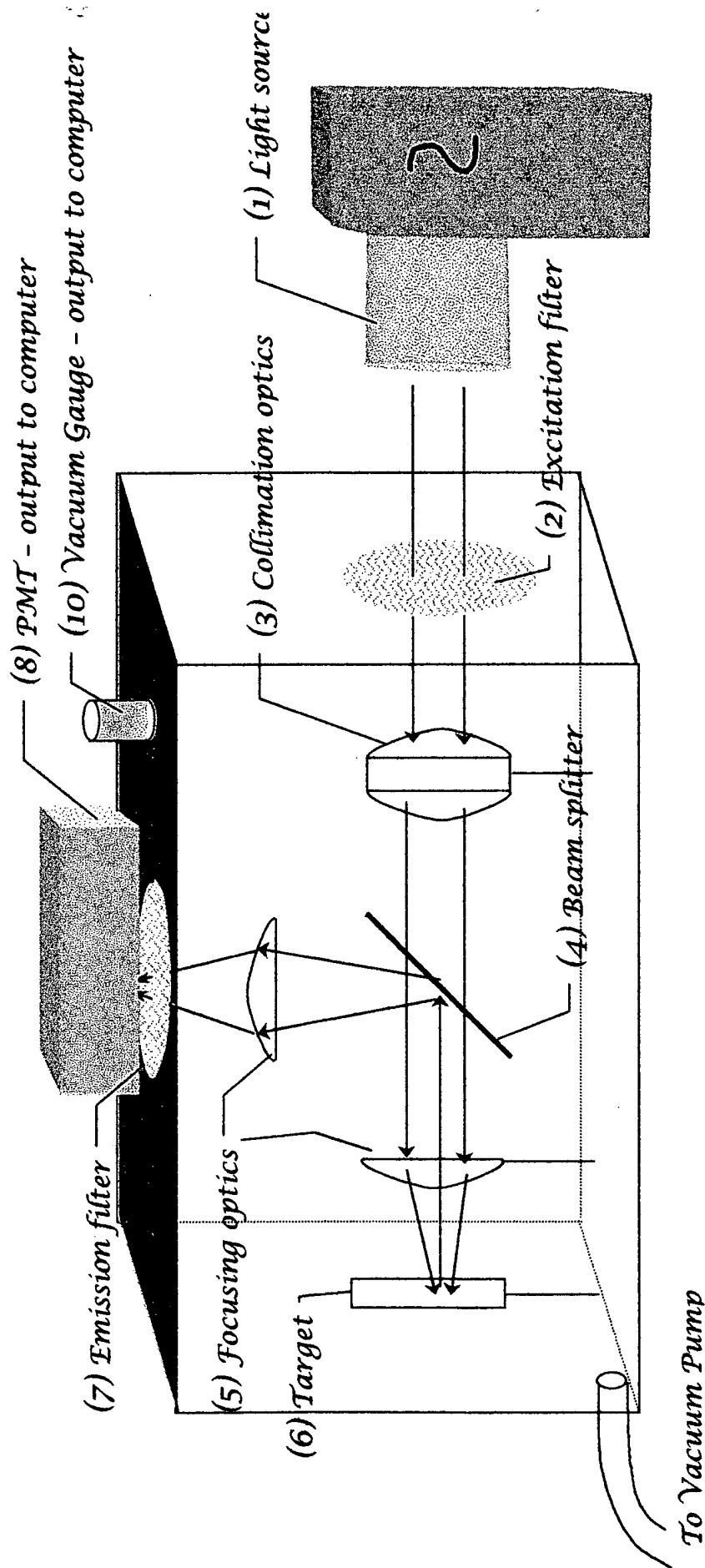


Figure 1b. Comparison of Stern-Volmer Response Characteristics for PtTPP and PdTPP in ethylene-octene copolymer

### Comparison of PdTPP and PtTPP in LDPE Film

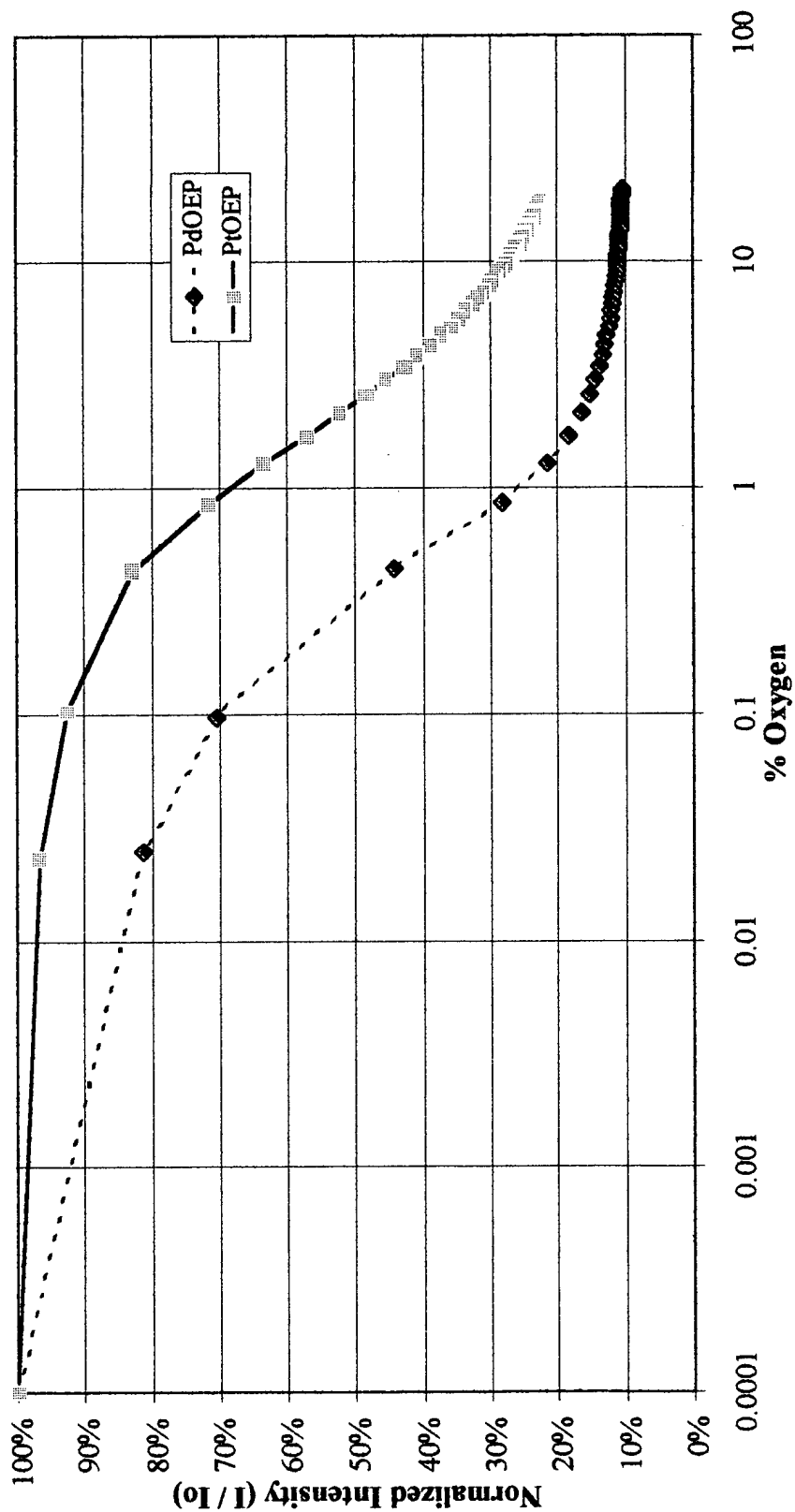
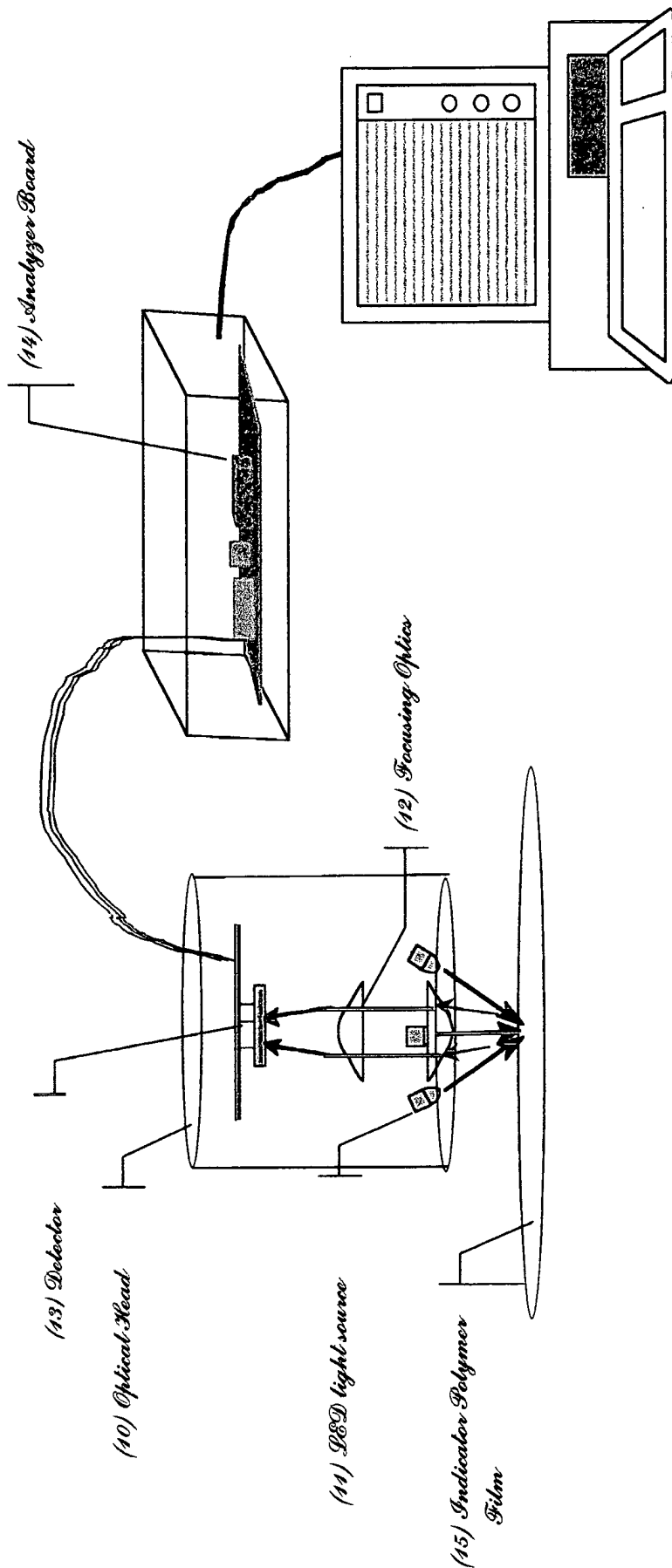
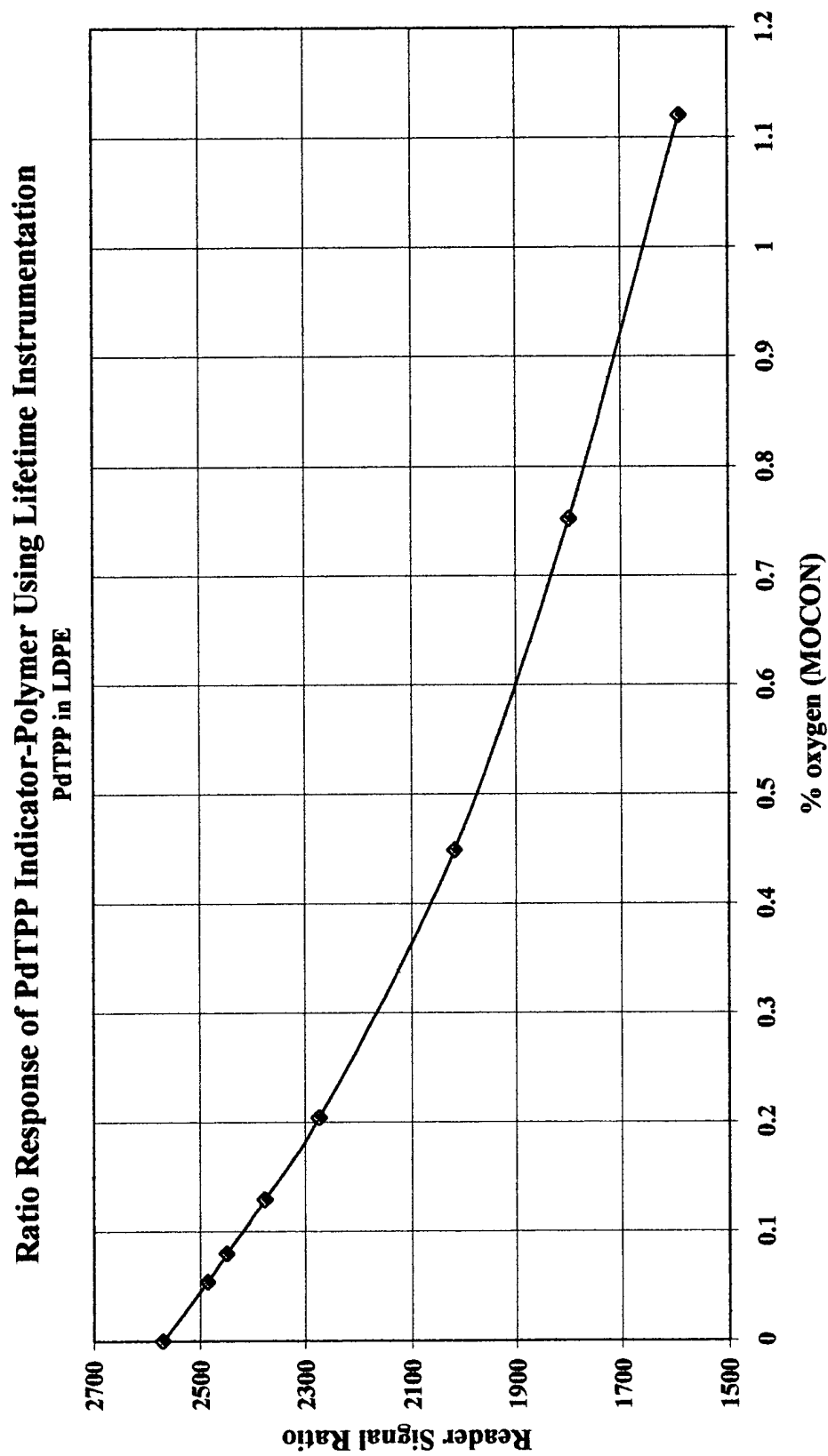


Figure 2a. Optical instrumentation used for lifetime measurements



**Figure 2b.** Ratio Response of PdTPP Dye in LDPE as a Function of Oxygen Concentration.



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Figure 3. Emission spectra of PtOEP indicator in a thermal melt preparation of a commercial LDPE thermoplastic polymer.  
Excitation centered at 400nm.

**Emission Spectrum**  
**PtOEP-LDPE**

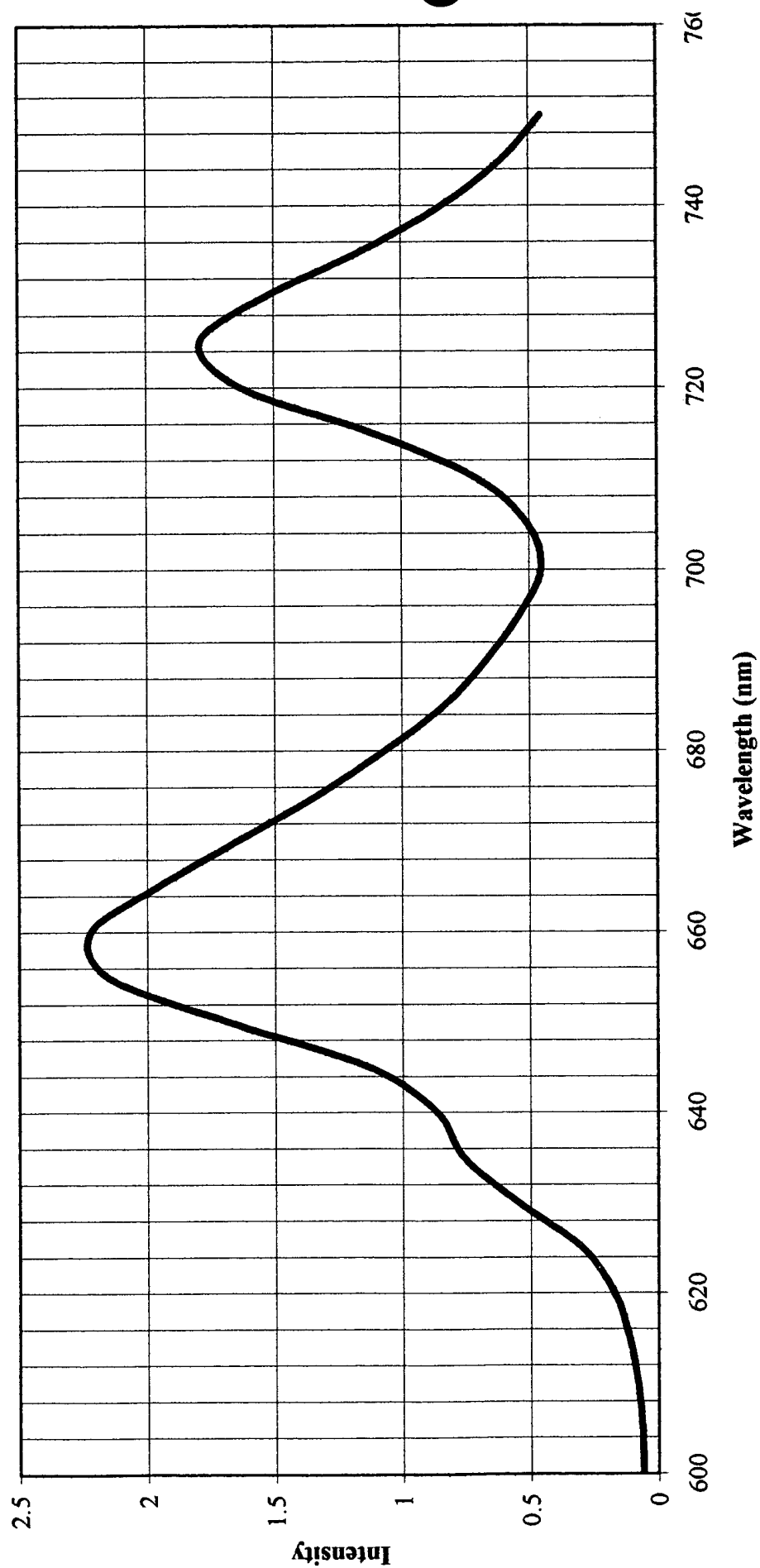
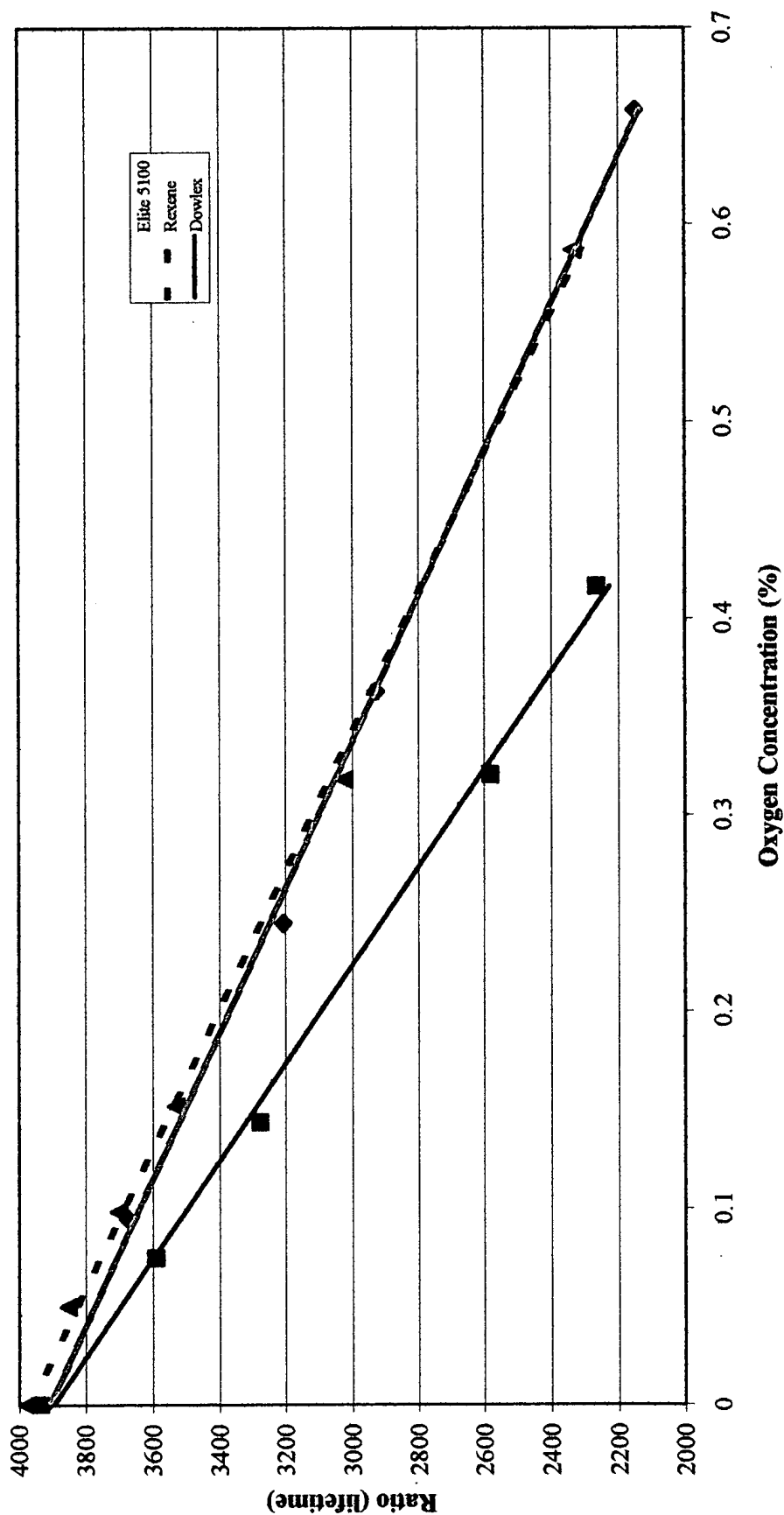


Figure 4. Ratiometric Response Curves for Press-Plaques from Different Carrier Polymers

**Ratio Response of PdTPP indicator in Different Commercial Carrier Polymers**



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**Figure 5.** Ratio response of a PtOEP film prepared by extrusion in twin-screw extrusion machine

**PtOEP Oxygen Indicator Polymer Film**

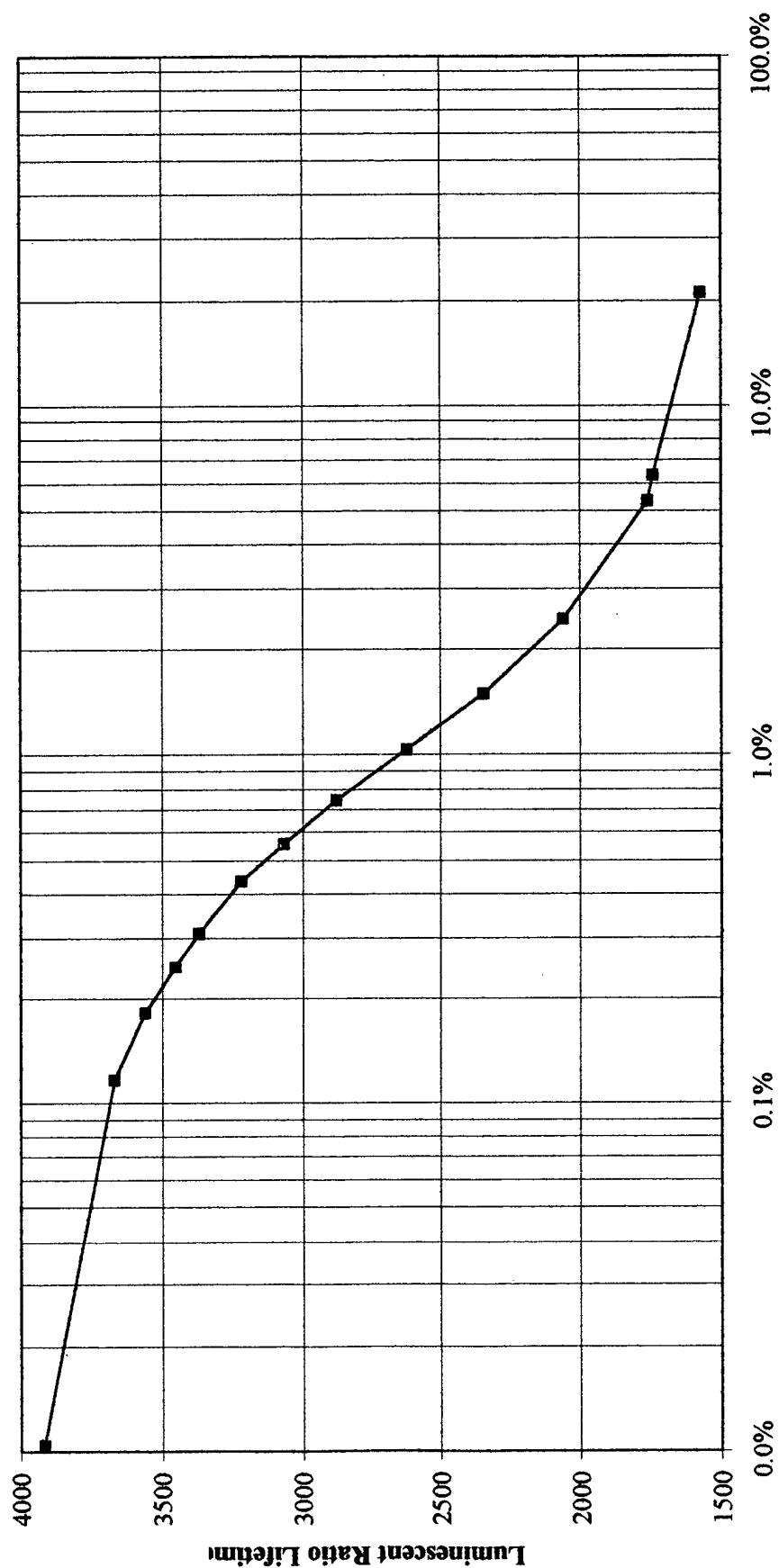


Figure 6. Various Laminate Forms of the Oxygen Sensor in Flexible Package Wrap Material

Indicator-Polymer Laminate Test Series  
PtOEP/Dowlex Indicator Film

